AMENDMENTS TO THE CLAIMS:

Replace the claims with the following rewritten listing:

1. (Currently Amended) User interface ~~means~~ comprising:

● ~~motion~~ detection means ~~(MDM)~~;

● output means ~~(OM)~~; and

● adaptation means ~~(AM)~~ adapted for ~~o~~ receipt of motion detection signals ~~(MDS)~~ obtained by said motion detection means ~~(MSM)~~, ~~o~~ establishing an interpretation frame on the basis of said motion detection signals ~~(MDS)~~ and ~~o~~ establishing and outputting communication signals ~~(CS)~~ to said output means ~~(OM)~~ on the basis of said motion detection signals ~~(MDS)~~ and said interpretation frame.

2. (Currently Amended) User interface ~~means~~ according to claim 1, wherein said user interface <u>further</u> comprises signal processing means or communicates with motion detection means ~~(MDM)~~ determining ~~the~~ obtained signal differences by comparison with the signals obtained when establishing said interpretation frame.

3. (Currently Amended) User interface ~~means~~ according to claim 1 ~~or 2~~, wherein said user interface ~~means~~ ~~are~~<u>is</u> distributed.

4. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1~~-3~~, wherein said motion detection means ~~MDM~~ comprise<u>s</u> a set of motion detection sensors ~~(SEN1, SEN2...SENn)~~.

5. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1~~-4~~, wherein said set of motion detection sensors ~~(SEN1, SEN2...SENn)~~ ~~are~~<u>is</u> exchangeable.

6. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 4<u>1</u>~~-5~~, wherein said set of motion detection sensors ~~(SEN1, SEN2...SENn)~~ forms a motion detection means ~~(MDM)~~ combinin<u>g</u>~~ed by~~ at least two motion detection sensors ~~(SEN1, SEN2...SENn) and~~

wherein anthe individual motion detection sensor may be exchanged by another motion detection sensor.

7. (Currently Amended) User interface means according to any of the claims 41-6, wherein said set of motion detection sensors (SEN1, SEN2...SENn) comprises at least two different types of motion detection sensors.

8. (Currently Amended) User interface means according to any of the claims 1-7, wherein said motion detection means (MDM) may be optimized by a user to anthe intended purpose by exchanging or adding of motion detection sensors (SEN1, SEN2...SENn), preferably by means of said motion detector sensors including at least two different types of motion detection sensors (SEN1, SEN2...SENn).

9. (Currently Amended) User interface means according to any of the claims 71-8, wherein said at least two different types of motion detection sensors (SEN1, SEN2...SENn) are mutually distinguishable.

10. (Currently Amended) User interface means according to any of the claims 41-9, wherein said motion detection sensors (SEN1, SEN2...SENn) physically comprise at least parts of said adaptation means (AM).

11. (Currently Amended) User interface means according to any of the claims 1-10, wherein said user interface means further comprises configuration means (CM) for configuring said adaptation means (AM).

12. (Currently Amended) User interface means according to any of the claims 1-11, wherein said configuration means (CM) outputs information to athe user through said output means (OM).

13. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 11-~~12~~, wherein said configuration means ~~(CM)~~ represents different parameters of the adaptation means ~~(AM)~~ by a human figure presented to a~~the~~ user by ~~means of~~ said output means ~~(OM)~~.

14. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 11-~~13~~, wherein said configuration means ~~(CM)~~ comprises a configuration wizard ~~for~~ automatically or semi-automatically leading a~~the~~ user through a configuration sequence.

15. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-14, wherein said configuration sequence comprises: ~~the steps of~~
    ~~•~~ choosing a~~the~~ position of a~~the~~ subject~~;~~;
    ~~•~~ choosing an~~the~~ area of a~~the~~ body used in an~~the~~ exercise~~;~~;
    ~~•~~ indicating ~~the~~ desired movement for the exercise~~;~~;
    ~~•~~ playing back the movements of the exercise for the subject~~;~~;
    ~~•~~ indicating ~~the~~ desired output for the exercise~~;~~;
    ~~•~~ choosing which part of the body should be fixed or monitored for erroneous movements; and
    ~~•~~ choosing a~~the~~ strictness of error control.

16. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-15, wherein said user interface ~~means~~ further comprises remote control means.

17. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 11-16, wherein said motion detection sensors ~~(SEN1, SEN2...SENn)~~ are driven by rechargeable batteries.

18. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 11-17, wherein said motion detection means ~~(MDM)~~ comprises a sensor tray ~~(ST)~~ for holding said motion detection sensors ~~(SEN1, SEN2...SENn)~~.

19. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1-18, wherein said sensor tray ~~(ST)~~ comprises means for recharging said motion detection sensors ~~(SEN1, SEN2...SENn)~~.

20. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1-19, wherein said motion detection signals ~~(MDS)~~ and/or said communication signals are transmitted by ~~means of~~ wireless communication.

21. (Canceled) ~~User interface means according to any of the claims 1-20, wherein said communication signals (CS) are transmitted by means of establishing wireless communication.~~

22. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 20-21, wherein said wireless communication exploits ~~the~~ Bluetooth technology.

23. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 20-22, wherein said wireless communication exploits wireless network technology.

24. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 20-23, wherein said wireless communication exploits wireless broadband technology.

25. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 20-24, wherein said wireless communication exploits UMTS technology.

26. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1-25, wherein said user interface means further comprises a sensor stand ~~(SS)~~.

27. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1-26, wherein said sensor stand ~~(SS)~~ has a shape recognizable as the shape of a human body.

28. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1-27, wherein said output means ~~(OM)~~ comprises an output interface.

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29. (Currently Amended)   User interface ~~means~~ according to ~~any of the~~ claims 1 ~~28~~, wherein said output means ~~(OM)~~ comprises a computer.

30. (Currently Amended)   Use of user interface ~~means~~ according to ~~any of the~~ claims 1 ~~to 29~~ for rehabilitation.

31. (Currently Amended)   Use of user interface ~~means~~ according to ~~any of the~~ claims 1 ~~to 29~~ for controlling electronical appliances.

32. (Currently Amended)   Use of user interface ~~means~~ according to ~~any of the~~ claims 1 ~~to 29~~ for controlling machines.

33. (Currently Amended)   Use of user interface ~~means~~ according to ~~any of the~~ claims 1 ~~to 29~~ for communication.

34. (Original)   Motion detector comprising a set of partial detectors of different types with respect to detection characteristics.

35. (Original) Motion detector according to claim 34, wherein the motion detector is adaptive.

36. (Currently Amended)   Motion detector for use in an interface according to ~~any of the~~ claims 1 ~~to 35~~.